	Application No.	Applicant(s)
	10/607 072	HINGETAL
Notice of Allowability	10/607,973 Examiner	JUNG ET AL. Art Unit
	Richard Edgar	3745
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>an amendment filed under 37 CFR 1.111 on 23 November 2004</u> .		
2. The allowed claim(s) is/are <u>1-13</u> .		
3. The drawings filed on 23 November 2004 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submi		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing the header according to 37 CFR 1.121(c	ngs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	6. ☐ Interview Summary Paper No./Mail Date B), 7. ☑ Examiner's Amendre	e

Response to Arguments

Applicant's argument, see page 10, lines 7-10, filed 23 November 2004, with respect to the claims have been fully considered and are persuasive. The claim rejections under 35 U.S.C. § 102(b) have been withdrawn.

Newly Cited Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. United States Patent Application Publication No. 2002/0034443 A1 discloses an axial flow fan for a microwave oven having 5 or more blades circumferentially arranged on a periphery of the fan hub, wherein the blades each have a sweep angle (α). Since the application is being allowed coincident with the citation of a newly found reference by the examiner, wherein the newly found reference is very close to the claims, a reasons for allowance is included below (MPEP § 1302.14).

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

United States Patent Application Publication No. 2002/0034443 A1 teaches an axial flow fan for a microwave having 5 or more blades wherein the blades have a variable sweep angle with a maximum value below 40 degrees. The specific blade shape of the publication reduces noise as compared with conventional blade shapes.

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The instant claims comprise a fan that circulates cool air in a refrigerator, wherein 7 blades each have a sweep angle between 50 and 65 degrees.

One having ordinary skill in the art of fans appreciates the importance of knowing the density of a fluid when designing fans. The temperature of the fluid affects the density of the fluid, which alters the optimum shape of the blade acting on said fluid.

One having ordinary skill in the art would not substitute a microwave fan for a fan used to circulate cool air in a refrigerator, if minimization of noise was desired. Clearly, as taught in at least Figs. 6 and 7 of the instant application, the minimization of fan noise in a refrigerator is desired, and occurs with 7 blades having a sweep angle between 50 and 65 degrees. Furthermore, the publication does not suggest altering the fan blade design for use in a refrigerator.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Edgar whose telephone number is (571) 272-4816. The examiner can normally be reached on Monday thru Friday, 8:00 am until 4:00 pm EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on (571) 272-4820. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard Edgar Examiner Art Unit 3745

RE

EDWARD K. LOOK
SUPERVISORY PATENT EXAMINER
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2/11/05